PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see F	Form PCT/ISA/220
194-37438-WO	ACTION		ere applicable, item 5 below.
International application No.	International filing date (day/mon	h/year) (Earl	iest) Priority Date (day/month/year)
PCT/US2004/004011	11/02/2004	:	
Applicant			
BAKER HUGHES INCORPORATED			
This International Search Report has been according to Article 18. A copy is being to			nd is transmitted to the applicant
This International Search Report consists	of a total of sl	eets.	
X It is also accompanied by	a copy of each prior art document	cited in this report.	
Basis of the report a. With regard to the language, the language in which it was filed, units and the language in which it was filed.	international search was carried or ess otherwise indicated under this		e international application in the
The international this Authority (Ru		s of a translation of	the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequenc	e disclosed in the i	nternational application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
4. With regard to the title ,			
X the text is approved as su	ibmitted by the applicant.		
the text has been established	shed by this Authority to read as fol	ows:	
5. With regard to the abstract,	shmitted by the applicant		
	ubmitted by the applicant. Shed, according to Rule 38,2(b), by	this Authority as it	appears in Box No. IV. The applicant
			rt, submit comments to this Authority.
6. With regards to the drawings,			
a. the figure of the drawings to be	published with the abstract is Figur	e No	_
as suggested by			
	is Authority, because the applicant		
	is Authority, because this figure be	tter characterizes t	ne invention.
b. none of the figures is to b	e published with the abstract.		

INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/004011

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10G29/20 C10L1/22 C10L1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMI	NTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 734 525 A (GREEN MICHAEL J) 29 March 1988 (1988-03-29) claims 14,15; examples 1-3,5-8	1,2,4-9, 11,14
X	US 4 096 085 A (HOLOMAN JR SMALLWOOD ET AL) 20 June 1978 (1978-06-20) claims 1,7	1-3
χ	US 6 267 939 B1 (NAGY ZOLTAN ET AL) 31 July 2001 (2001-07-31) example 4A2	1-3,8,9
A	WO 98/02501 A (BAKER HUGHES INC) 22 January 1998 (1998-01-22) page 3, line 9 - line 14; claim 1	16-25

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but later than the priority date claimed	 'T' tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 6 December 2004	Date of mailing of the international search report 13/12/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gilliquet, J-N

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/004011

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 538 819 A (BAKER HUGHES INC) 28 April 1993 (1993-04-28) cited in the application claims 1,2; example 1	16-25

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.:

Present claims 1 and 4 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds:

1,4-diazabicyclo(2.2.2)octane,1,8-diazabicyclo(5.4.0)undec-7-ene, 1,5-diazabicyclo(4.3.0)non-5-ene and mixtures thereof

Compound (B): epoxides,

those compounds prepared in the examples and closely related homologous compounds.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/US2004/004011

INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remari	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/004011

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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